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## WHAT IS CLAIMED IS:

A system capable of performing state-based signaling on behalf of a stateless client, comprising:

- a controller, couplable to a state-based terminal, that translates at least one stateless signaling message received from said stateless client to at least one state-based signaling message for presentation to said state-based terminal thereby facilitating a media stream communications session between said stateless client and said state-based terminal over an Internet Protocol (IP)-based network.
- 2. The system as recited in Claim 1 wherein said controller translates at least one state-based signaling message received from said state-based terminal to at least one stateless signaling message for presentation to said stateless client.
- 3. The system as recited in Claim 1 wherein said controller comprises a protocol engine and a stateless client control engine.

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- 4. The system as recited in Claim 1 wherein said controller
  forms an abstraction of said at least one stateless signaling
  message prior to translating.
  - 5. The system as recited in Claim 1 wherein said system performs state-based signaling on behalf of a plurality of stateless clients.
    - 6. The system as recited in Claim 1 wherein said media stream includes portions selected from the group consisting of:

voice,

video, and

data.

- 7. The system as recited in Claim 1 wherein portions of said media stream traverse a path between said stateless client and said state-based terminal without said controller.
- 8. The system as recited in Claim 1 wherein said at least one state-based signaling message and said at least one stateless signaling message traverse a signaling path separate from a path for said media stream.

- media stream traverse a path between said stateless client and said 2 state-based terminal with said controller. 3
- The system as recited in Claim 1 wherein said at least 2 one state-based signaling message is based on a protocol selected from the group consisting of: 3
- H.225,
- H.235,
  - H.245, and
  - H.323.
  - The system as recited in Claim 1 wherein said stateless 11. client is selected from the group consisting of a device having:
  - an individual telephone,
  - 4 at least one digital trunk interface,
  - 5 at least one analog trunk interface,
  - 6 at least one digital station interface,
  - 7 at least one analog station interface, and
  - a shared system resource. 8

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	12. The system as recited in Claim 1 wherein said at least
2	one stateless signaling message includes an indication selected
3	from the group consisting of:
4 .	a telephony "off-hook" event,
5	a telephony "on-hook" event,
6	a telephony "button depressed" event,

7 a telephony "digit dialed" event, and

a "client registration" event.

13. The system as recited in Claim 1 wherein said at least one stateless signaling message includes a command selected from the group consisting of:

light a specified lamp,

display text,

turn a ringer on/off,

play a specified tone,

associate button with specified function, and

connect at least one media stream.

14. The system as recited in Claim 1 wherein said controller operates only with respect to call management and management of said media stream.

- 15. The system as recited in Claim 1 wherein said system is
- 2 embodied as a sequence of instructions executable in a general
- 3 purpose computer system.

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16. A method of performing state-based signaling on behalf of 2 a stateless client, comprising the steps of:

translating at least one stateless signaling message received from said stateless client to at least one state-based signaling message for presentation to said state-based terminal thereby facilitating a media stream communications session between said stateless client and said state-based terminal over an Internet Protocol (IP)-based network.

- 17. The method as recited in Claim 16 further comprising the step of translating at least one state-based signaling message received from said state-based terminal to at least one stateless signaling message for presentation to said stateless client.
- 18. The method as recited in Claim 16 further comprising the step of forming an abstraction of said at least one stateless signaling message prior to the step of translating.
- 19. The method as recited in Claim 16 wherein the method performs state-based signaling on behalf of a plurality of stateless clients.

- 20. The method as recited in Claim 16 wherein said media 2 stream includes portions selected from the group consisting of:
- yoice,
- 4 video, and
- 5 data.

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21. A system capable of performing state-based signaling on behalf of a stateless client, comprising:

a controller, couplable to a state-based terminal, that translates at least one state-based signaling message received from said state-based terminal to at least one stateless signaling message for presentation to said stateless client thereby facilitating a media stream communications session between said stateless client and said state-based terminal over an Internet Protocol (IP)-based network.

- 22. The system as recited in Claim 21 wherein said controller translates at least one stateless signaling message received from said stateless client to at least one state-based signaling message for presentation to said state-based terminal.
- 23. The system as recited in Claim 21 wherein said controller comprises a protocol engine and a stateless client control engine.
- 24. The system as recited in Claim 21 wherein said controller forms an abstraction of said at least one state-based signaling message prior to translating.

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- 25. The system as recited in Claim 21 wherein said system
  2 performs state-based signaling on behalf of a plurality of
  3 stateless clients.
  - 26. The system as recited in Claim 21 wherein said media stream includes portions selected from the group consisting of:
- 3 voice,
- 4 video, and
- 5 data.
  - 27. The system as recited in Claim 21 wherein portions of said media stream traverse a path between said stateless client and said state-based terminal without said controller.
  - 28. The system as recited in Claim 21 wherein said at least one state-based signaling message and said at least one stateless signaling message traverse a signaling path separate from a path for said media stream.
  - 29. The system as recited in Claim 21 wherein portions of said media stream traverse a path between said stateless client and said state-based terminal with said controller.

- 30. The system as recited in Claim 21 wherein said at least
- one state-based signaling message is based on a protocol selected
- 3 from the group consisting of:
- 4 H.225,
- 5 H.235,
- 6 H.245, and
- 7 H.323.

- 31. The system as recited in Claim 21 wherein said stateless client is selected from the group consisting of a device having:
  - an individual telephone,
  - at least one digital trunk interface,
  - at least one analog trunk interface,
  - at least one digital station interface,
  - at least one analog station interface, and
- 8 a shared system resource.

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The system as recited in Claim 21 wherein said at least one stateless signaling message includes an indication selected 2 from the group consisting of: 3 a telephony "off-hook" event, 4 a telephony "on-hook" event, 5 a telephony "button depressed" event, a telephony "digit dialed" event, and 7 a "client registration" event. 8 The system as recited in Claim 21 wherein said at least one stateless signaling message includes a command selected from 2 the group consisting of: 3 light a specified lamp, 4 display text, 5 turn a ringer on/off, 6 7 play a specified tone,

34. The system as recited in Claim 21 wherein said controller operates only with respect to call management and management of said media stream.

associate button with specified function, and

connect at least one media stream.

- 35. The system as recited in Claim 21 wherein said system is
- embodied as a sequence of instructions executable in a general
- 3 purpose computer system.

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2 a stateless client, comprising the steps of:

translating at least one state-based signaling message received from said state-based terminal to at least one stateless signaling message for presentation to said stateless client thereby facilitating a media stream communications session between said stateless client and said state-based terminal over an Internet Protocol (IP)-based network.

- 37. The method as recited in Claim 36 further comprising the step of translating at least one stateless signaling message received from said stateless client to at least one state-based signaling message for presentation to said state-based terminal.
- 38. The method as recited in Claim 36 further comprising the step of forming an abstraction of said at least one state-based signaling message prior to the step of translating.
- 39. The method as recited in Claim 36 wherein the method performs state-based signaling on behalf of a plurality of stateless clients.

- 40. The method as recited in Claim 36 wherein said media
- 2 stream includes portions selected from the group consisting of:
- voice,
- 4 video, and
- 5 data.

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A system capable of performing state-based signaling on behalf of a stateless client, comprising:

a controller, couplable to a state-based terminal, that translates at least one stateless signaling message received from said stateless client to at least one state-based signaling message for presentation to said state-based terminal thereby facilitating a media stream communications session between said stateless client and said state-based terminal over a packet network.

- 42. The system as recited in Claim 41 wherein said controller translates at least one state-based signaling message received from said state-based terminal to at least one stateless signaling message for presentation to said stateless client.
- 43. The system as recited in Claim 41 wherein said controller comprises a protocol engine and a stateless client control engine.
- 44. The system as recited in Claim 41 wherein said controller comprises a call manager messaging interface and a stateless client messaging interface.

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45. The system as recited in Claim 41 wherein said controller 2 forms an abstraction of said at least one stateless signaling

message prior to translating.

- 46. The system as recited in Claim 41 wherein said system

  2 performs state-based signaling on behalf of a plurality of

  3 stateless clients.
  - 47. The system as recited in Claim 41 wherein said network employs a transport protocol selected from the group consisting of: an Internet Protocol (IP),
  - an Internetwork Packet Exchange/Sequenced Packet Exchange (IPX/SPX), and
    - a Systems Network Architecture (SNA).
  - 48. The system as recited in Claim 41 wherein portions of said media stream traverse a path between said stateless client and said state-based terminal without said controller.

- 49. The system as recited in Claim 41 wherein said at least one state-based signaling message and said at least one stateless signaling message traverse a signaling path separate from a path for said media stream.
  - 50. The system as recited in Claim 41 wherein said system is embodied as a sequence of instructions executable in a general purpose computer system.

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A method of performing state-based signaling on behalf of a stateless client, comprising the steps of:

translates at least one stateless signaling message received from said stateless client to at least one state-based signaling message for presentation to said state-based terminal thereby facilitating a media stream communications session between said stateless client and said state-based terminal over a packet network.

- 52. The method as recited in Claim 51 further comprising the step of translating at least one state-based signaling message received from said state-based terminal to at least one stateless signaling message for presentation to said stateless client.
- 53. The method as recited in Claim 51 further comprising the step of forming an abstraction of said at least one stateless signaling message prior to the step of translating.
- 54. The method as recited in Claim 51 wherein the method performs state-based signaling on behalf of a plurality of stateless clients.

- 55. The method as recited in Claim 51 wherein said network
  employs a transport protocol selected from the group consisting of:
  an Internet Protocol (IP),
  an Internetwork Packet Exchange/Sequenced Packet Exchange
  (IPX/SPX), and
- a Systems Network Architecture (SNA).

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behalf of a stateless client, comprising:

a controller, couplable to a state-based terminal, that translates at least one state-based signaling message received from said state-based terminal to at least one stateless signaling message for presentation to said stateless client thereby facilitating a media stream communications session between said stateless client and said state-based terminal over a packet network.

- 57. The system as recited in Claim 51 wherein said controller translates at least one stateless signaling message received from said stateless client to at least one state-based signaling message for presentation to said state-based terminal.
- 58. The system as recited in Claim 51 wherein said controller comprises a protocol engine and a stateless client control engine.
- 59. The system as recited in Claim 51 wherein said controller comprises a call manager messaging interface and a stateless client messaging interface.

- 60. The system as recited in Claim 51 wherein said controller forms an abstraction of said at least one state-based signaling message prior to translating.
- 61. The system as recited in Claim 51 wherein said system
  2 performs state-based signaling on behalf of a plurality of
  3 stateless clients.
  - 62. The system as recited in Claim 51 wherein said network employs a transport protocol selected from the group consisting of:

    an Internet Protocol (IP),
  - an Internetwork Packet Exchange/Sequenced Packet Exchange (IPX/SPX), and
    - a Systems Network Architecture (SNA).
  - 63. The system as recited in Claim 51 wherein portions of said media stream traverse a path between said stateless client and said state-based terminal without said controller.

- 64. The system as recited in Claim 51 wherein said at least one state-based signaling message and said at least one stateless signaling message traverse a signaling path separate from a path for said media stream.
  - 65. The system as recited in Claim 51 wherein said system is embodied as a sequence of instructions executable in a general purpose computer system.

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A method of performing state-based signaling on behalf of a stateless client, comprising the steps of:

translating at least one state-based signaling message received from said state-based terminal to at least one stateless signaling message for presentation to said stateless client thereby facilitating a media stream communications session between said stateless client and said state-based terminal over a packet network.

- 67. The method as recited in Claim 66 further comprising the step of translating at least one stateless signaling message received from said stateless client to at least one state-based signaling message for presentation to said state-based terminal.
- 68. The method as recited in Claim 66 further comprising the step of forming an abstraction of said at least one state-based signaling message prior to the step of translating.
- 69. The method as recited in Claim 66 wherein the method performs state-based signaling on behalf of a plurality of stateless clients.

70. The method as recited in Claim 66 wherein said network
2 employs a transport protocol selected from the group consisting of:
3 an Internet Protocol (IP),
4 an Internetwork Packet Exchange/Sequenced Packet Exchange
5 (IPX/SPX), and

a Systems Network Architecture (SNA).

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An Internet Protocol (IP)-based network, comprising: at least one state-based terminal capable of processing state-2 based signaling messages; 3 at least one stateless client capable of processing only 4 stateless signaling messages; and 5 a server, couplable between said at least one state-based 6 terminal and said at least one stateless client, comprising: 7 a controller capable of performing state-based signaling 8 on behalf of said at least one stateless client, including: a stateless client control engine that forms an abstraction of said at least one stateless signaling message received from said at least one stateless client; and a protocol engine that translates said abstraction to at least one state-based signaling message for presentation to said at least one state-based terminal thereby facilitating a media

stream communications session between said at least one stateless

client and said at least one state-based terminal.

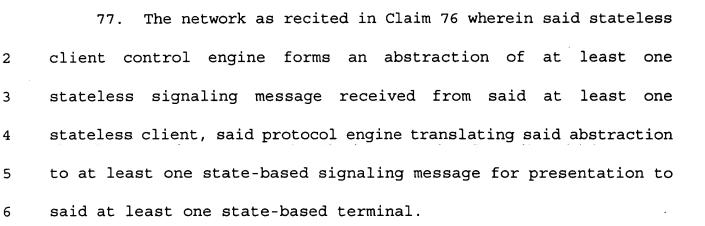
- 72. The network as recited in Claim 71 wherein said protocol engine forms an abstraction of at least one state-based signaling message received from said at least one state-based terminal, said stateless client control engine translating said abstraction to at least one stateless signaling message for presentation to said at least one stateless client.
  - 73. The network as recited in Claim 71 wherein said controller further comprises a call manager messaging interface and a stateless client messaging interface.
  - 74. The network as recited in Claim 71 further comprising a gateway coupled between an intranet portion and an internet portion of said network.
  - 75. The network as recited in Claim 71 wherein said controller is embodied as a sequence of instructions executable in a general purpose computer system.

An Internet Protocol (IP)-based network, comprising: at least one state-based terminal capable of processing statebased signaling messages; 3 at least one stateless client capable of processing only 4 stateless signaling messages; and 5 a server, couplable between said at least one state-based 6 terminal and said at least one stateless client, comprising: 7 a controller capable of performing state-based signaling 8 on behalf of said at least one stateless client, including: 9 a protocol engine that forms an abstraction of said at least one state-based signaling message received from said at least one state-based terminal; and a stateless client control engine that translates

said abstraction to at least one stateless signaling message for presentation to said at least one stateless client thereby facilitating a media stream communications session between said at least one stateless client and said at least one state-based terminal.

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- 78. The network as recited in Claim 76 wherein said controller further comprises a call manager messaging interface and a stateless client messaging interface.
- 79. The network as recited in Claim 76 further comprising a gateway coupled between an intranet portion and an internet portion of said network.
- 80. The network as recited in Claim 76 wherein said controller is embodied as a sequence of instructions executable in a general purpose computer system.

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